

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

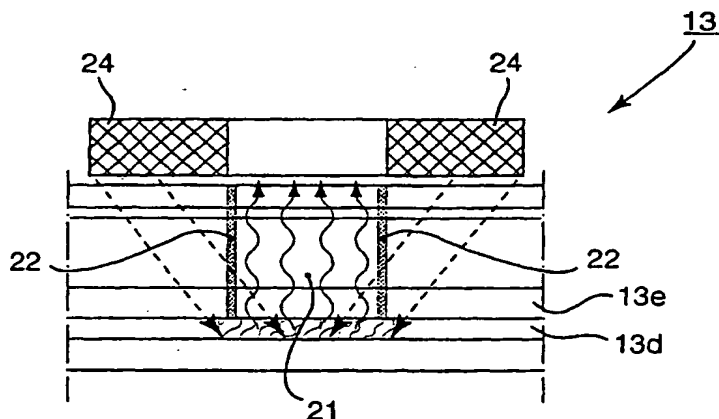
(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
29 March 2001 (29.03.2001)

PCT

(10) International Publication Number
WO 01/21390 A1

- (51) International Patent Classification⁷: **B31B 1/74**, (74) Agent: SUNDELL, Håkan; AB Tetra Pak, Patent Department, Ruben Rausing's gata, S-221 86 Lund (SE).
B65D 5/72
- (21) International Application Number: PCT/SE00/01833 (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (22) International Filing Date:
21 September 2000 (21.09.2000)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
9903415-9 22 September 1999 (22.09.1999) SE
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).
- (71) Applicant (*for all designated States except US*): TETRA LAVAL HOLDINGS & FINANCE S.A. [CH/CH]; Av. Général-Guisan 70, CH-1009 Pully (CH).
- Published:
— With international search report.
- (72) Inventor; and
- (75) Inventor/Applicant (*for US only*): LASSON, Rolf [SE/SE]; Rudeboksvägen 307, S-226 55 Lund (SE).
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: A METHOD OF PRODUCING A PACKAGING CONTAINER PROVIDED WITH AN OPENING ARRANGEMENT



(57) Abstract: The disclosure relates to a method of producing packages with opening arrangements and of the type which has a hole prepared in the package wall through which the package is intended to be emptied of its contents. A web of paper or paperboard is coated on its one side with a liquid-tight coating of plastic and, on its other side, with a metal foil which serves as oxygen gas barrier and which is bonded to the paper or paperboard layer by an interjacent adhesive layer. The coated web or packaging blank is thereafter transported further to a packing and filling machine where the web is provided with emptying-preparatory holes before being reformed into finished packages in a conventional manner. The emptying-preparatory holes are made only partly through the web in that the web is first incised or cut along closed lines through the outer plastic coating and the paper or paperboard web down to, but not through, the subjacent metal layer, and the parts of the web enclosed by the incision lines being thereafter removed from the web with the aid of a vacuum. The removal of the above-mentioned web parts is facilitated in that the packaging blank is selectively heated in order wholly or at least partly to break the bond between the metal foil and the paper or paperboard layer within the region of these parts.